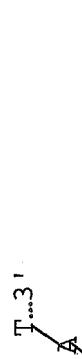# Fig. 1

A Wild Type Template

3' CTGAGCAGTACAGAGTCGAAATC 5' 10866(SEQ ID NO:81)

TCTGACTCGTCGTCAGCTTCAGCTTTAGTTTAATACGACTCACTATAG

T

A

G

G

GTCTCTTTCTGTTATATCAAG 5'   3'TCCACCTTAGTGTGTGACTC 10865(SEQ ID NO:76)

5'TTGCAGAGAAAGACAATATAGTTCTTGGAGAAGGTGGAATCACACTGAGTGGA 10870(SEQ ID NO:77)

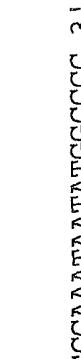3'CCACTTCCACCTTAGTGTGTGACTC 5' 10869(SEQ ID NO:79)

B Mutant Template

3' CTGAGCAGTACAGAGTCGAAATC 5'10866(SEQ ID NO:81)

TCTGACTCGTCGTCAGCTTCAGCTTTAGTTTAATACGACTCACTATAG

T

A

G

G

GTCTCTTTCTGTTATATCAAG 5'   3'TCCACCTTAGTGTGTGACTC   10865(SEQ ID NO:76)

5'TTGCAGAGAAAGACAATATAGTTCTTTGGAGAAGGTGGAATCACACTGAGTGGA 10994(SEQ ID NO:78)

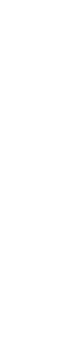3' ACACTTCCACCTTAGTGTGTGACTC 5' 10989(SEQ ID NO:80)

Fig. 2

A.

→ SEQ ID NO:67

5' ...CCCGGAGAGACCTCCTTAAGGGGCCATATATTATTCGTCGATTCCAGTGTTGGCCAAACGG

  3' AGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG 5'

SEQ ID NO:68

B.

→ SEQ ID NO:67

5' ...CCCGGAGAGACCTCCTTAAGGGGCCATATATTATTCGTCGATTCCAGTGTTGGCCAAACGG

3' GGGCCTCTCTGGAGGAATTCCCGGTATAATAAAGCAGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG 5'

SEQ ID NO:69

C.

SEQ ID NO:70

5' CCCGGAGAGACCTCCT 3' →

3' GGGCCTCTCTGGAGGAATTCCCGGTATAATAAAGCAGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG 5'

SEQ ID NO:69

D.

→ SEQ ID NO:71

5' CCCGGAGAGACCTCCTTAAGGGGCCATATATTATTCGTCGATTCCAGTGTTGGCCAAACGGGCGAAATAATATGGCCCC 3'

3' GGGCCTCTCTGGAGGAATTCCCGGTATAATAAAGCAGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG 5'

SEQ ID NO:69

E.

→

3' CCCGGTATAATAAAGC

5' CCCGGAGAGACCTCCTTAAGGGGCCATATATTATTCGTCGATTCCAGTGTTGGCC

SEQ ID NO:71